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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/425,788	10/22/1999	E. NOEL ABARRA	0941.63365	1025

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EXAMINER

RICKMAN, HOLLY C

ART UNIT

PAPER NUMBER

1773

DATE MAILED: 11/27/2002

27

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/425,788	ABARRA ET AL.	
	Examiner	Art Unit	
	Holly Rickman	1773	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 19 August 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-12 and 19-36 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1-12 and 19-25 is/are allowed.

6) Claim(s) 26-36 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>26</u> .	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Double Patenting

1. The rejection of claims 1-6, 19-25 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13-14,16, and 18-23 of copending Application No. 09/938,032 is withdrawn in view of the terminal disclaimer filed 8/19/02.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 26-36 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification as originally filed fails to provide support for a magnetic layer and first ferromagnetic layer each having a magnetic moment per unit area. Applicant argues that this is a feature that is inherent to all magnetized materials. However, there is no evidence of record to support this position. Furthermore, it is unclear how the specification provides support for the limitation in claim 28 “wherein the magnetic moments per unit area (M1 x t1) and (M2 x t2) of the first ferromagnetic layer and the magnetic layer...are different from one another.” Applicant states that the embodiment described on page 7, lines 31-36 describes two magnetic layers

having different thicknesses. Applicant notes that when the materials are the same, the magnetic moments “will naturally be different.” It is not clear why they will naturally be different.

The specification as originally filed fails to provide support for a “magnetic recording layer exhibiting a major hysteresis loop with two remanent magnetic states in the absence of an applied field; and wherein the orientations of the moments of the first ferromagnetic layer and the magnetic layer are substantially antiparallel in each remanent state, but the moment orientation in one remanent state of at least one of the first ferromagnetic layer and the second magnetic layer is substantially antiparallel to its orientation in the other remanent state.”

Applicant provides a figure illustrating this feature of the claimed invention. However, it is unclear how the specification as originally filed, including the hysteresis loop shown in figures 3-6, provides support for the claimed orientation of the magnetic moments of the ferromagnetic and magnetic layers.

With respect to claim 33, the specification fails to provide adequate support for a “ferromagnetic layer...comprising multiple magnetic domains with orientations of the domains being generally randomly oriented in-plane.” Applicant argues that this feature is inherent in the disclosure of a non-textured medium. However, there is no evidence of record to support this position.

Allowable Subject Matter

4. Claims 1-12 and 19-25 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Request for Interference with a Patent

5. Applicant's request for interference with a patent filed 8/19/02 has been fully considered but is not persuasive.

The specification as originally filed fails to provide support for several features of claims 26-36. Applicant is advised that a highly detailed explanation with supporting evidence would be necessary to establish the inherence of the aforementioned features. For example, submission of a text book reference to provide a definition for "magnetic moment per unit area" and establish that this is a feature of all magnetic materials.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Rickman whose telephone number is (703) 305-2642. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Thibodeau can be reached on (703) 308-2367. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.



Holly Rickman
Examiner
Art Unit 1773

hcr
November 22, 2002